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PREscore, Version 4.1, Evaluation

Robert Wooler Company Site
Dresher, Montgomery County, PA
CERCLIS No. PAD987279387
Dump Site No. PA2700

27 October 1997

Prepared for

U. S. Environmental Protection Agency Region III CEPP and Site Assessment Section Philadelphia, PA

CONFIDENTIAL PRESCORE SUMMARY

Robert Wooler Company Site Dresher, Montgomery County, Pennsylvania TDD No. 9701-15 EPA Contract No. 68-S5-3002

1.0 INTRODUCTION

The Region III Environmental Protection Agency, Chemical Emergency Preparedness and Prevention and Site Assessment Section, under the direction of Site Assessment Manager (SAM) James Hargett, tasked the Roy F. Weston, Inc., Site Assessment Technical Assistance (SATA) team to conduct a site inspection (SI) and prepare PREscore scoresheets for the Robert Wooler Site (Site), Dresher, Montgomery County, Pennsylvania. This document and the associated SI PREscore scoresheets are considered confidential information and are not to be released to the public because of the predecisional nature of this site evaluation. The scoresheets can be found as an attachment to this summary report.

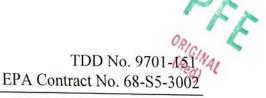
The 1997 Wooler SI sample results and field notes provided much of the data used in the site evaluation. Earlier groundwater results for the on-site process supply well were also considered to support the evaluation. The on-site process well was sampled in 1989 as part of the investigation of the nearby Selas Corporation (Reference 1, p. 1-2, Reference 2, p. 5-2). In addition, SATA collected updated groundwater usage information to supplement population data presented in the 1993 Wooler preliminary assessment (PA) report.

Some assumptions were made when preparing this PREscore evaluation. These assumptions were necessary because certain information was not available to satisfy the data requirements of the Hazard Ranking System (HRS) model. The major assumptions used are identified in this summary report.

2.0 SUMMARY OF THE PRESCORE

A PREscore Version 4.1 evaluation was performed for the Robert Wooler Company (RWC) Site, CERCLIS identification number PAD987279387. The overall site score is 41.26, which is above the 28.50 value required for recommending further evaluation of the Site under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986. The main factors contributing to the final site score are the observed release to groundwater and the magnitude of people who rely on municipal wells within a four mile radius of the Site as their potable water supply. An alternative scoring scenario, evaluating the groundwater pathway on the potential of hazardous substances to release to groundwater rather than on an observed release to groundwater, still gives a groundwater score of 64.52 which is sufficient to result in a final site score greater than 28.50. This confirms that the number of targets is driving the final site score.

Robert Wooler Company Site Dresher, Montgomery County, Pennsylvania



3.0 SOURCES

One waste source, contaminated soils (suspected to be associated with the former septic field), was identified and evaluated for the RWC Site. RWC maintained the on-site septic field until the facility was connected to the municipal sewer system in the early 1980s, at which time the septic field was backfilled (Reference 1, p. 1-2, Reference 3, p. 188). Company representatives reported that the field begins approximately 4 to 5 feet beneath the ground surface (Reference 3, p. 188). The hazardous waste quantity calculation for this contaminated soils area was based on field measurements of the approximate area suspected to be the location of the former septic field (approximately 25 feet by 50 feet by 4 feet deep) (Reference 3, p. 189).

Although no records document that process wastes or waste solvents were disposed of in the former septic field, there are chlorinated volatile organic compounds (VOC) in the groundwater beneath the facility. RWC maintained two on-site degreasers that used trichloroethene (TCE) from 1963 to 1985, accounting for an estimated 200 gallons of spent TCE each month (Reference 1, pp. 1-2 and 4-1).

SATA was not able to determine the exact location of the former septic field; therefore, no soil samples were collected. Instead groundwater sampling results for the on-site process supply well were used to identify hazardous substances associated with the waste source. The RWC process well, which was first found to be contaminated in 1989, was re-sampled as part of the 1997 SI. Analytical results for samples HW-1 (1989) and sample RWGW01 (1997) were used to characterize the waste source. Sample HW-1 showed the presence of TCE; tetrachloroethene (PCE); 1,1,1-trichloroethane (1,1,1-TCA); and 1,1-dichloroethene (1,1-DCE) in the groundwater beneath the RWC Site (Reference 1, p. 1-2, Reference 2, Section 7.1). Analytical results for sample RWGW01 confirmed that the groundwater beneath the site was contaminated with these chlorinated VOCs (Reference 4, Attachment 1).

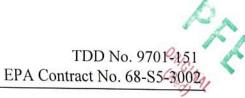
4.0 GROUNDWATER CONCLUSIONS

The groundwater pathway score is 82.52. This pathway score reflects an observed release of several chlorinated VOCs to the groundwater underlying the RWC Site and potential contamination of private and municipal drinking water wells within a four mile radius of the Site.

4.1 Likelihood of Release

Analytical results for groundwater samples HW-1 (1989) and RWGW01 (1997) were used to document the observed release to groundwater. The same chlorinated VOCs were detected in both sampling events, though concentrations

Robert Wooler Company Site Dresher, Montgomery County, Pennsylvania



were substantially lower in 1997. Sample results (from the 1989 and 1997 sampling events, respectively) show that groundwater in the 200-foot deep on-site well is contaminated with TCE (270 and 36.9 μ g/L); PCE (22 and 6 μ g/L); 1,1,1,-TCA (52 and 7.4 μ g/L); and 1,1-DCE (52 and 10.8 μ g/L) (Reference 2, Appendix I). Although no other deep well was sampled, the higher concentration of chlorinated VOCs found in the on-site well compared to other area wells sampled in both 1989 and 1997 indicates that the RWC Site is a source of the groundwater contamination (Reference 1, Appendix C, Reference 2; Section 7.1; Reference 4, Attachment 1). RWC also used TCE as a degreasing agent for over 20 years (Reference 1, pg. 1-2). Other facilities in the area, such as Scotch Paper and Allied Concrete, are not suspected to use chlorinated solvents based upon the type of industrial process used by those facilities. In addition, when the septic tanks at the nearby Selas Corporation were sampled, no TCE was found (Reference 2, Appendix E).

Several water-bearing formations are present in the site area and are believed to be interconnected based on the similar composition of the formations and the high degree of fracturing of the bedrock as described in the literature (Reference 1, pp. 3-5 to 3-8). For purposes of this PREscore evaluation, the Conestoga, Elbrook, Ledger, and Stockton formations are considered to form one single hydraulic unit which is the primary source of potable water for residents within four miles of the Site (Reference 1, pp. 3-1 - 3-4; Reference 2, pp. 3-1 - 3-3). Depth to groundwater beneath the RWC Site is not known; however, groundwater was encountered in monitoring wells completed in the Stockton Formation at depths of 23 to 29 feet at the nearby Selas Corporation which is located approximately 650 feet southeast of RWC (Reference 1, p. 2-2).

4.2 Drinking Water Targets

Most people living within four miles of the Site rely on municipal systems for their potable water supply (Reference 1, p. 3-1). Within this four mile radius, five municipal water authorities operate a total of 36 municipal wells, most of which are completed in either the Stockton or the Ledger formations (Reference 1, p. 3-1; Reference 2, p. 3-1). Four of the wells that make up the Philadelphia Suburban Water Company (PSWC) system are completed in the Conestoga and Elbrook formations (Reference 1, p. 3-2). These 36 municipal wells are part of totally integrated or blended water systems (Reference 5).

SATA established the locations of the municipal wells relative to the site by using a 1992 municipal well location map provided by the Montgomery County Planning Commission (Reference 5). The number of people served by each blended system was taken from the PA report for the RWC Site because these values were determined to be higher then values calculated based upon the

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TDD No. 9701-151 EPA Contract No. 68-85-3002

estimated number of users per connection (Reference 1, pp. 3-1 - 3-4; Reference 4, Attachment 2). Other relevant groundwater information, such as the number of interconnections with other water authorities and relative pumping rates for units in the system was provided in a 1990 water resources report which was also furnished by Montgomery County (Reference 6, Appendix B). For each blended system, SATA divided the population served equally among all the units supplying the system since no single supply unit contributes more than 40 percent of the total supply (Reference 6, Appendix B). Because of the number and complexity of these blended systems, including the existence of multiple supplying and receiving interconnections with other blended systems, the apportionment of the drinking water population has been outlined in apportionment calculation worksheet(s) found as Attachment 2 to the RWC 1997 SI narrative report. The apportionment calculations follow the steps specified in the HRS Guidance Manual, Section 7.6, Scoring Multiple Blended Systems (Reference 7, pp. 180-184). Based on the apportionment scheme, an estimated 205,500 people rely on municipal wells within four miles of the Site for their potable water supply. The closest municipal wells are located approximately 1.2 miles north and 1.2 miles southeast of RWC (Reference 5).

At the time of the preliminary assessment, the Schmidt Nursery well was identified as the closest drinking water well to the site. SATA determined that most areas near the site, including the Schmidt Nursery property, mentioned above, are connected to a local municipal water authority and are assumed not to use domestic wells to provide potable water (Reference 8). SATA identified a different well, located approximately 0.9 miles from RWC, as the nearest drinking water well. The PA identified wells closer than this, but SATA could not confirm this information. The SATA identified well is located. (b) (9)

estimated 120 persons use domestic wells to provide drinking water (33 wells x 2.58 persons per household for Montgomery County) (Reference 1, p. 3-4; Reference 9, p. 468). This value also includes the 40 workers identified at MCC (Reference 10).

5.0 SURFACE WATER CONCLUSIONS

The surface water pathway score is 0.24. This score, although minimal, reflects an observed release of TCE to surface water and potential contamination of downstream fisheries, wetlands and other sensitive environments. It should be noted that the hazardous substances associated with the site and identified in the observed release sample do not bioaccumulate.

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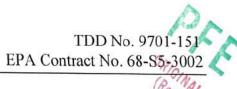
Surface water runoff from the RWC Site, according to SATA observations, drains northnorthwest about 800 feet before entering a perennially-flowing unnamed stream, which
locals report is a tributary of Rapp Run (Reference 3, p. 190). SATA also observed that
the storm sewer outfall for the lower section of Susquehanna Road, adjacent to the RWC
facility, also discharges to the unnamed tributary approximately 24 inches upstream of
the overland discharge point (Reference 3, p. 189). SATA confirmed that this unnamed
tributary empties into Rapp Run about 2 miles downstream of the Site (Reference 3, p.
190). As shown on topographic maps, Rapp Run then meets Sandy Run which empties
into the Wissahickon Creek approximately 3.8 miles downstream of the Site (Reference
4, Figure 6). The 15-mile target distance limit ends near the mouth of Wissachickon
Creek just before it converges with the Schuylkill River. The flow rate of Wissahickon
Creek at this point is approximately 100 cubic feet per second (Reference 11).

A release of TCE from the Site into the unnamed tributary to Rapp Run was evidenced by the presence of TCE downstream of RWC and near the storm sewer outfall location but not at the upstream sample location (Reference 4, Attachment 1). Analytical results suggest that the presence of chlorinated VOCs in the tributary may be the result of contaminated groundwater beneath the Site discharging to surface water.

Analytical results for aqueous sample RWSW02 were used to document the observed release. Although no aqueous background sample results were available to compare to sample RWSW02 results, the pattern of TCE contamination found in the other samples collected from the tributary supports the observed release. Aqueous sample RWSW02, collected about 200 feet downstream of the Site, contained a small amount of TCE (1.2 µg/L) (Reference 4, Attachment 1). TCE was also detected at estimated concentrations in the aqueous and sediment samples collected near the storm sewer outfall (samples RWSW01 and RWSS01, respectively); however, it was not found in the upstream sediment sample (sample RWSS02) (Reference 4, Attachment 1). In addition to TCE, downstream sample RWSW02 also contained estimated concentrations of four other chlorinated VOCs, all of which were found in the groundwater beneath the RWC Site (Reference 4, Attachment 1). These chlorinated VOCs were not detected in the upstream sediment sample (Reference 4, Attachment 1).

Sample RWSW03, collected at the confluence of the unnamed tributary with Rapp Run, assumed to be the nearest fishery, showed no site-related contamination (Reference 4, pg. 15; Reference 2, Attachment 1). The nearest identified sensitive environments are the wetlands in the unnamed tributary downstream of sample RWSW02, the observed release sample (Reference 4, Figure 7). An estimated total of 3.5 miles of wetland frontage exist along the 15-mile downstream study area (Reference 4, Figure 7). No surface water intakes are known to exist within the 15-mile downstream distance (Reference 1, p. 3-5; Reference 4, Figure 6). Other sensitive environments along the surface water pathway include state designated scenic rivers and Fort Washington State Park, which was assumed to be a sensitive environment for this report.

Robert Wooler Company Site Dresher, Montgomery County, Pennsylvania



6.0 SOIL EXPOSURE AND AIR PATHWAYS

The soil exposure pathway score is 0.00. No surficial samples were collected; therefore, no observed contamination can be documented. As a result, there is no soil exposure pathway for the RWC Sitein this evaluation.

The air pathway score is 1.03. No air sampling was performed during the 1997 SI sampling event. Based on observations made during the SI, all unpaved areas of the RWC Site are vegetated with scrub brush and grasses (Reference 1, p. 2-1; Reference 3, p. 188). This PREscore evaluation assumes that contaminated soils associated with the former RWC septic field are present at three feet or more below the surface. About 40 workers are currently employed at RWC (Reference 1, p. 3-11; Reference 3 p. 189). The nearest residence is located approximately 700 feet southeast from the Site (Reference 1, p. 3-12; Reference 2, p. 3-12). An estimated 104,111 people live within four miles of the Site (Reference 4, p. 17). Several sensitive environments are located within the four-mile target distance limit and include wetlands, federal and state parks and scenic rivers.

7.0 SUMMARY

The overall site score for the Robert Wooler Company Site is 41.04, which is above the 28.50 cutoff value required for further remedial action under CERCLA. Although both an observed release to groundwater and surface water have been documented, only the groundwater pathway is a significant pathway at RWC. The reason for the high site score is the number of targets potentially effected along the groundwater pathway. Hazardous substance migration off site along this pathway was documented but appears to be localized. Analytical results from the Selas Corporation SI sampling event in 1989 compared to the 1997 Wooler SI sampling event results show a significant reduction of contaminants. Several domestic wells in the vicinity of the site have been sampled and show no indication of site-related contamination. However, a nearby commercial well (Manufacturers Country Club well) does contain estimated concentrations of a number of site-related contaminants.

8.0 LIST OF REFERENCES

1. Example 1993. Site Manager, Ecology and Environment, Inc. Written correspondence with Maggie Jennis, U.S. EPA (Environmental Protection Agency) concerning submittal of Robert Wooler Preliminary Assessment report. 26 February.

- 2. NUS Corporation, Superfund Division. 1990. Site Inspection of Selas Corporation of America, Dresher, Montgomery County, Pennsylvania. Reported by February.
- 3. In 1997. Field logbook for Robert Wooler Company Site Sampling Event. SATA-03-A-923. WESTON SATA. 31 March.
- 4. WESTON SATA. 1997. Site Inspection Report of Robert Wooler Company Site. Prepared by R. Thom. Delran, NJ. October.
- 5. Montgomery County Planning Commission. 1992. Water Supply Facilities 1990 Status Report. Map Attachment B. Norristown, PA
- Montgomery County Planning Commission, 1992, Water Supply Facilities 1990 Status Report. Norristown, PA.
- EPA (U.S. Environmental Protection Agency). 1992. Hazard Ranking System Guidance Manual. Office of Solid Waste and Emergency Response, Washington, DC. EPA/540/R-92/026. November.
- 8. Montgomery County Planning Commission. 1992. Water Supply Facilities 1990 Status Report. Map Attachment A. Norristown, PA.
- 9. U.S. Department of Commerce, Bureau of Census. 1994. *County and City Data Book*. Washington DC.
- Site Lead. WESTON SATA. Telephone conversation with Krimmel, W. Grounds Manager, Manufacturers Country Club, concerning well usage and sampling event schedule. 13 March.
- 11. Historical Streamflow Daily Values for Wissahickon Creek at Mouth, Philadelphia, PA. [online]. October 1997. (http://h20.usgs.gov/swr/pa).

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PREscore, Version 4.1, Scoresheets

Robert Wooler Company Site
Dresher, Montgomery County, PA
CERCLIS No. PAD987279387
Dump Site No. PA2700

27 October 1997

Prepared for
U. S. Environmental Protection Agency Region III
CEPP and Site Assessment Section
Philadelphia, PA



PREscore 4.1 NPL Characteristics Data Collection Form Robert Wooler Company - 10/28/97

Record Information

 Site Name: Robert Wooler Company (as entered in CERCLIS)

2. Site CERCLIS Number: PAD987279387

3. Site Reviewer: Region III Sata

4. Date: 10/28/97

 Site Location: Dresher/Montgomery County, PA (City/County, State)

6. Congressional District: 17

7. Site Coordinates: Single

Latitude: 40°08'23.0"

Longitude: 075°09'57.0"

Site Description

Setting: Suburban

- 2. Current Owner: Private Industrial
- 3. Current Site Status: Active
- 4. Years of Operation: Active Site , from and to dates: 1939
- 5. How Initially Identified: Other During SI of Selas Corp. Site
- . Entity Responsible for Waste Generation:
 - Other Metal Heat Test/treating
- 7. Site Activities/Waste Deposition:
 - Other Septic Fields
 - Discharge to Sewer/Surface Water

Waste Description

- 8. Wastes Deposited or Detected Onsite:
 - Other Algaecide
 - Organic Chemicals
 - Solvents



PREscore 4.1 NPL Characteristics Data Collection Form Robert Wooler Company - 10/28/97

Response Actions

- 9. Response/Removal Actions:
 - Other Emergency Action Has Occurred

RCRA Information

- 10. For All Active Facilities, RCRA Site Status:
 - Not Applicable

Demographic Information

- 11. Workers Present Onsite: Yes
- 12. Distance to Nearest Non-Worker Individual: > 10 Feet 1/4 Mile
- 13. Residential Population Within 1 Mile: 2416.0
- 14. Residential Population Within 4 Miles: 104071.0

Water Use Information

- . Local Drinking Water Supply Source:
 - Ground Water (within 4 mile distance limit)
- 16. Total Population Served by Local Drinking Water Supply Source: 205855.0
- 17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:
 - Municipal (Services over 25 People)
 - Private
- 18. Surface Water Adjacent to/Draining Site:
 - Other Unnamed tributary to Rapp Run



PRESCORE 4.1 HRS DOCUMENTATION RECORD Robert Wooler Company - 10/28/97

 Site Name: Robert Wooler Company (as entered in CERCLIS)

2. Site CERCLIS Number: PAD987279387

3. Site Reviewer: Mot Responsive Based on Revised Scope Region III Sata

4. Date: 10/28/97

 Site Location: Dresher/Montgomery County, PA (City/County, State)

6. Congressional District: 17

. Site Coordinates: Single

Latitude: 40°08'23.0"

Longitude: 075°09'57.0"

	Score
Ground Water Migration Pathway Score (Sgw)	82.52
Surface Water Migration Pathway Score (Ssw)	0.27
Soil Exposure Pathway Score (Ss)	0.00
Air Migration Pathway Score (Sa)	1.03

Site Score	41.26
	12.20

NOTE

Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.



PREscore 4.1 GROUND WATER MIGRATION PATHWAY SCORESHEET Robert Wooler Company - 10/28/97

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Ledger/Stockton Form		
1. Observed Release 2. Potential to Release	550	550
2a. Containment	10	
2b. Net Precipitation	10	10
2c. Depth to Aquifer	5	3 5
2d. Travel Time	35	35
2e. Potential to Release		33
[lines 2a(2b+2c+2d)]	500	430
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+02
5. Hazardous Waste Quantity	*	1006+02
6. Waste Characteristics	100	6
Targets		
7. Nearest Well	50	2.00E+01
8. Population	30	2.00E+01
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	2.04E+03
8d. Population (lines 8a+8b+8c) 9. Resources	**	2.04E+03
O. Wellhead Protection Area	5	5.00E+00
1. Targets (lines 7+8d+9+10)	20	0.00E+00
2. Targets (including overlaying aguiforg)	**	2.06E+03
3. Aquifer Score	100	2.06E+03 82.52
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	82.52

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.





PREscore 4.1 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Robert Wooler Company - 10/28/97

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	550
2. Potential to Release by Overland Flow	330	330
za. Containment	10	3
2b. Runoff	25	1 1
2c. Distance to Surface Water	25	16
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	51
3. Potential to Release by Flood		
3a. Containment (Flood)		60
3b. Flood Frequency	10	0
3c. Potential to Release by Flood	50 500	0
(lines 3a x 3h)	300	0
4. Potential to Release (lines 2d+3c)	500	51
5. Likelihood of Release	550	550
Waste Characteristics		
6. Toxicity/Persistence	*	
7. Hazardous Waste Quantity	*	4.00E+01
8. Waste Characteristics	100	10
Targets		
9. Nearest Intake		
O. Population	50	0.00E+00
10a. Level I Concentrations	**	0 008.00
10b. Level II Concentrations	**	0.00E+00 0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
	5	5.00E+00
2. Targets (lines 9+10d+11)	**	5.00E+00
B. DRINKING WATER THREAT SCORE	100	0.10

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.





PRESCORE 4.1 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Robert Wooler Company - 10/28/97

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation 16. Hazardous Waste Quantity 17. Waste Characteristics	* * 1000	2.00E+03 10 10
Targets		
18. Food Chain Individual 19. Population	50	2.00E+00
19a. Level I Concentrations 19b. Level II Concentrations 19c. Pot. Human Food Chain Contamination 19d. Population (lines 19a+19b+19c) 20. Targets (lines 18+19d)	* * * * * * * * * * * * * * * * * * *	0.00E+00 0.00E+00 6.30E-04 6.30E-04 2.00E+00
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.13

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.





PREscore 4.1 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Robert Wooler Company - 10/28/97

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc. 24. Hazardous Waste Quantity 25. Waste Characteristics	* * 1000	2.00E+03 10 10
Targets		
26. Sensitive Environments 26a. Level I Concentrations 26b. Level II Concentrations 26c. Potential Contamination 26d. Sensitive Environments (lines 26a+26b+26c) 27. Targets (line 26d)	** ** ** **	0.00E+00 0.00E+00 6.05E-01 6.05E-01
8. ENVIRONMENTAL THREAT SCORE	60	0.04
9. WATERSHED SCORE	100	0.27
0. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	0.27

^{*} Maximum value applies to waste characteristics category.

** Maximum value not applicable.





PREscore 4.1 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Robert Wooler Company - 10/28/97

COM	UND WATER TO SURFACE WATER MIGRATION PONENT tor Categories & Factors NKING WATER THREAT	Maximum Value	Value Assigned
Lik Aqu	elihood of Release to Aquifer ifer: Ledger/Stockton Form		
100000000000000000000000000000000000000	Observed Release	550	550
	Potential to Release 2a. Containment		2002
	2b. Net Precipitation	10	10
	2c. Depth to Aquifer	5	3 5
	2d. Travel Time	35	35
	2e. Potential to Release		33
	[lines 2a(2b+2c+2d)]	500	430
3. :	Likelihood of Release	550	550
Was	te Characteristics		
4.	Toxicity/Mobility/Persistence	*	4.00E+01
	Hazardous Waste Quantity	*	10
6. 1	Waste Characteristics	100	3
Tar	gets		
	Nearest Intake	50	0.00E+00
	Population		
	Ba. Level I Concentrations	**	0.00E+00
	Bb. Level II Concentrations Bc. Potential Contamination	**	0.00E+00
	Bd. Population (lines 8a+8b+8c)	**	0.00E+00
9. 1	Resources		0.00E+00
	Targets (lines 7+8d+9)	5 **	5.00E+00 5.00E+00
1. [DRINKING WATER THREAT SCORE	100	0.10

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.



PREscore 4.1 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Robert Wooler Company - 10/28/97

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc. 14. Hazardous Waste Quantity 15. Waste Characteristics	* * 1000	2.00E+03 10 10
Targets		
16. Food Chain Individual 17. Population	50	1.00E+00
17a. Level I Concentrations 17b. Level II Concentrations 17c. Pot. Human Food Chain Contamination 17d. Population (lines 17a+17b+17c)	** ** **	0.00E+00 0.00E+00 3.15E-04
18. Targets (lines 16+17d)	**	3.15E-04 1.00E+00
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.07

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.





PREscore 4.1 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Robert Wooler Company - 10/28/97

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc. 22. Hazardous Waste Quantity 23. Waste Characteristics	* * 1000	2.00E+03 10 10
Targets		
24. Sensitive Environments 24a. Level I Concentrations 24b. Level II Concentrations 24c. Potential Contamination 24d. Sensitive Environments (lines 24a+24b+24c) 25. Targets (line 24d)	** ** ** **	0.00E+00 0.00E+00 3.02E-01 3.02E-01
26. ENVIRONMENTAL THREAT SCORE	60	0.02
27. WATERSHED SCORE	100	0.19
88. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.19

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.



PRESCORE 4.1 SOIL EXPOSURE PATHWAY SCORESHEET Robert Wooler Company - 10/28/97

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	0
Waste Characteristics		
2. Toxicity	*	0.00E+00
3. Hazardous Waste Quantity	*	0
4. Waste Characteristics	100	o
Targets		
5. Resident Individual 6. Resident Population	50	0.00E+00
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b) 7. Workers	**	0.00E+00
8. Resources	15	0.00E+00
9. Terrestrial Sensitive Environments	5	0.00E+00
O. Targets (lines 5+6c+7+8+9)	***	0.00E+00
•	**	0.00E+00
1. RESIDENT POPULATION THREAT SCORE	**	0.00E+00

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

^{***} No specific maximum value applies, see HRS for details.



PREscore 4.1 SOIL EXPOSURE PATHWAY SCORESHEET Robert Wooler Company - 10/28/97

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility 13. Area of Contamination 14. Likelihood of Exposure	100 100 500	0.00E+00 0.00E+00 0.00E+00
Waste Characteristics		
15. Toxicity 16. Hazardous Waste Quantity 17. Waste Characteristics	* * 100	0.00E+00 0
Targets		
18. Nearby Individual 19. Population Within 1 Mile 20. Targets (lines 18+19)	1 **	1.00E+00 2.00E+00 3.00E+00
1. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	0.00

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.



PREscore 4.1 AIR PATHWAY SCORESHEET Robert Wooler Company - 10/28/97

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
 Observed Release Potential to Release Gas Potential to Release 	550	0
2b. Particulate Potential to Release 2c. Potential to Release	500 500 500	252 0
3. Likelihood of Release	550	252 252
Waste Characteristics		
 Toxicity/Mobility Hazardous Waste Quantity Waste Characteristics 	*	1.00E+02
Targets	100	6
7. Nearest Individual		
8. Population 8a. Level I Concentrations	50	2.00E+01
8b. Level II Concentrations	**	0.00E+00
8C. Potential Contamination	**	0.00E+00
8d. Population (lines ontohio.	**	3.10E+01
. Resources	**	3.10E+01
O. Sensitive Environments	5	5.00E+00
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	6.89E-02
10c. Sens. Environments(lines 10a+10b) 1. Targets (lines 7+8d+9+10c)	***	6.89E-02
	**	5.61E+01
AIR MIGRATION PATHWAY SCORE (Sa)	100	1.03E+00

^{*} Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.



PRESCORE 4.1 WASTE QUANTITY Robert Wooler Company - 10/28/97

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Septic Field

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a.	Source ID		
		Septic Field	
b.	Source Type	Contaminated S	Soil
c.	Secondary Source Type	N.A.	
d.	Source Vol.(yd3/gal) Source Area (ft2)	185.00	1250.00
-	Source Volume/Area Value	7.40E-02	
f.	Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g.	Data Complete?	ИО	
h.	Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
•	Data Complete?	NO	
k.	Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	7.40E-02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units	
Dichloroethylene, 1,1- Tetrachloroethylene Trichloroethane, 1,1,1- Trichloroethylene	> 2 > 2 > 2 > 2 > 2	YES YES YES YES	0.0E+00 0.0E+00 0.0E+00 0.0E+00	ppm ppm ppm	_

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source	ID	Migration Pathways	Vol. or Area	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	Septic	Field	GW-SW-A	7.40E-02	0.00E+00	7.40E-02



PRESCORE 4.1 WASTE QUANTITY Robert Wooler Company - 10/28/97

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Valu	es	HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+02	10	6
SW: Overland Flow, DW	Tox./Persistence	4.00E+01	10	3
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	2.00E+03	10	10
SW: Overland Flow, Env	Etox./Persis./Bioacc.	2.00E+03	10	10
SW: GW to SW, DW	Tox./Persistence	4.00E+01	10	3
SW: GW to SW, HFC	Tox./Persis./Bioacc.	2.00E+03	10	10
SW: GW to SW, Env	Etox./Persis./Bioacc.	2.00E+03	10	10
Soil Exposure:Resident	Toxicity	0.00E+00	0	0
Soil Exposure: Nearby	Toxicity	0.00E+00	0	0
Air	Toxicity/Mobility	1.00E+02	10	6

Hazardous Waste Quantity Factor Values
Waste Characteristics Factor Category Values

Note:

SW = Surface Water

GW = Ground Water

DW = Drinking Water Threat HFC = Human Food Chain Threat Env = Environmental Threat



PRESCORE 4.1 GROUND WATER PATHWAY AQUIFER SUMMARY Robert Wooler Company - 10/28/97

No. Aquifer ID	Туре	Overlaying No.	Inter- Connected with	Likelihood of Release	Targets
1 Ledger/Stockton	Form Non K	0	0	550	2.06E+03

Containment

No.	Source ID	HWQ Value	Containment	Value
1	Septic Field	7.40E-02	10	
==:	==========	==========	=========	
	Conta	ainment Factor	10	

Net Precipitation

Net Precipitation (inches)

6.50



PREscore 4.1 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Ledger/Stockton Formation AQUIFER Robert Wooler Company - 10/28/97

Aquifer: Ledger/Stockton Formation

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

No.	Well ID	Well Type		stance miles)	Level of	Contaminat	tion
1 42	Wooler Well 1997 Wooler Well 1989	Monitoring Monitoring	Well (0.000	Level I Level I		·
Wel.	1						
No.	Hazardous Substan	nce	Concent.	MCL	Cancer	RFD	Units
42	Dichloroethylene, 1, Tetrachloroethylene Trichloroethane, 1, Trichloroethylene Dichloroethylene, 1, Tetrachloroethylene Trichloroethane, 1,1 Trichloroethylene	1,1-	1.1E+01 6.0E+00 7.4E+00 3.7E+01 5.2E+01 2.2E+01 2.7E+02	7.0E+00 5.0E+00 2.0E+02 5.0E+00 7.0E+00 5.0E+00 2.0E+02 5.0E+00	1.6E+00 0.0E+00 7.7E+00 1.4E-01 1.6E+00 0.0E+00	3.3E+02 3.7E+02 0.0E+00 0.0E+00 3.3E+02 3.7E+02 0.0E+00 0.0E+00	ppb ppb ppb ppb ppb ppb ppb
====	=======================================	========	Observed	======	=======	=======	=====

550

Observed Release Factor



PRESCORE 4.1 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Ledger/Stockton Formation AQUIFER Robert Wooler Company - 10/28/97

POTENTIAL TO RELEASE

Containment		
Containment Factor Net Precipitation	10	
Net Precipitation Factor epth to Aquifer	3	
A. Depth of Hazardous Substances	8.00	feet
B. Depth to Aquifer from Surface	23.00	feet
C. Depth to Aquifer (B - A) Depth to Aquifer Factor Travel Time	15.00 5	feet
Are All Layers Karst?	МО	
Thickness of Layer(s) with Lowest Conductivity	5.00	feet
Hydraulic Conductivity (cm/sec)	1.0E-04	
Travel Time Factor	35	
Potential to Polege Park	=======	========

Potential to Release Factor 430



PRESCORE 4.1 GROUND WATER PATHWAY WASTE CHARACTERISTICS Robert Wooler Company - 10/28/97

Source: 1 Septic Field

Source Hazardous Waste Quantity Value: 0.07

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Dichloroethylene, 1,1-	100	1.00E+00	1.00E+02
Tetrachloroethylene	100	1.00E+00	1.00E+02
Trichloroethane, 1,1,1-	1	1.00E+00	1.00E+00
Trichloroethylene	10	1.00E+00	1.00E+01

Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
1	Dichloroethylene, 1,1-	100	1.00E+00	1.00E+02
1	Tetrachloroethylene	100	1.00E+00	1.00E+02
1	Trichloroethane, 1,1,1-	1	1.00E+00	1.00E+00
1	Trichloroethylene	10	1.00E+00	1.00E+01
42	Dichloroethylene, 1,1-	100	1.00E+00	1.00E+01
42	Tetrachloroethylene	100	1.00E+00	1.00E+02
42	Trichloroethane, 1,1,1-	1	1.00E+00	1.00E+02
42	Trichloroethylene	10	1.00E+00	1.00E+01

Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	1.00E+02
Toxicity/Mobility Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	7.40E-02
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	6



PREscore 4.1 GROUND WATER PATHWAY TARGETS FOR AQUIFER Ledger/Stockton Formation Robert Wooler Company - 10/28/97

Population by Well

Distance Level of No. Well ID Sample Type (miles) Contamination Population

- N/A and/or data not specified

Level I Population Factor:

0.00

Level II Population Factor:

0.00

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value	
> 0 to 1/4	0.0	0.00E+00	
> 1/4 to 1/2	65.0	3.30E+00	
> 1/2 to 1	60.0	1.70E+00	
1 to 2	75014.0	9.38E+02	
- 2 to 3	42074.0	6.78E+02	
3 to 4	88332.0	4.17E+02	

Potential Contamination Factor:

2038.000

earest Well

Level of Contamination: Potential

Distance in miles: 0.25

Nearest Well Factor: 2.00E+01

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Wellhead Protection Area

No wellhead protection area

ellhead Protection Area Factor: 0.00E+00





PRESCORE 4.1 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Robert Wooler Company - 10/28/97

No. Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)	
1 Unnamed Tributa:	y River	Fresh	0.00	2.00	20	
2 Rapp Run	River	Fresh	2.00	2.50	50	
3 Sandy Run	River	Fresh	2.50		80	
4 Wissahickon Cree	ek River	Fresh	3.80	15.00	103	
	Sample Type	Distand (miles		el of Co HF	ntaminatior C Env	
OBSERVED RELEASE No. Sample ID 1 RWSW02(200'dwns				HF		
No. Sample ID	strm) Aqueous	(miles	Level	II Pot	C Env	

Observed Release Factor

550



PRESCORE 4.1 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Robert Wooler Company - 10/28/97

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Con	tainment					
No.	Source ID	HWQ Value	Containment	Value		
1	Septic Field	7.40E-02	3			
Co	ontainment Factor:				3	
Dist	tance to Surface Wa	ater				
	istance to Surface				800.	0 feet
Di	istance to Surface	Water Factor	•		16	
ınc	off —					
Α.	Drainage Area:				2.0	acres
В.	2-year, 24-hour	Rainfall:			3.0	inches
C.	Soil Group: Medium-textured	soils with mo	oderate infilt	ration	B rate	s
Ru	noff Factor:				1	
===	=========	========	=========	======	====:	========
	ntial to Release b				51	
ote	ntial to Release b	y Flood				
0. 5	Source ID	HWQ Value	Flood Containment Value	Flood Freque Value	ncy	Potential to Releas by Flood
_	N/A and/or data no	ot specified				
===:			26 <u> </u>			



PRESCORE 4.1 SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS Robert Wooler Company - 10/28/97

Source: 1 Septic Field

Source Hazardous Waste Quantity Value: 0.07

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Dichloroethylene, 1,1- Tetrachloroethylene "richloroethane, 1,1,1-	100 100	4.00E-01 4.00E-01	4.00E+01 4.00E+01
richloroethylene	1 10	4.00E-01 4.00E-01	4.00E-01 4.00E+00

Hazardous Substances Found in an Observed Release

Sampl	e Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
1	Trichloroethylene	10	4.00E-01	4.00E+00

Toxicity/Persistence Value from Source Hazardous Substances:	4.00E+01
Toxicity/Persistence Value from Observed Release Hazardous Substances:	
	4.00E+00
Toxicity/Persistence Factor:	4.00E+01
Sum of Source Hazardous Waste Quantity Values:	7.40E-02
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	3





PRESCORE 4.1 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: RWSW02(200'dwnstrm)

Sample Medium: Aqueous

Location:

0.40 miles

Hazardous Substance	Hazardous Substance Concentration	DW MCL Benchmark Concentration	Units
richloroethylene	1.2E+00	5.0E+00	ppb

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

imple ID: RWSW02(200'dwnstrm)
istance from the Probable Point of Entry: 0.40 miles

ONFIDENTIAL ORIGINAL

PREscore 4.1

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

Distance Along the

In-water Segment from the

Intake Probable Point of Entry (miles)

Population

- N/A and/or data not specified

Population Served by Level I Intakes:

Level I Population Factor: 0.00E+00

Level II Concentrations

Distance Along the

In-water Segment from the

Intake Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

Potential Contamination

Intake ID

Average Annual Flow (cfs)

Population Served

- N/A and/or data not specified

Type of Surface Water Body

Total Population

Dilution-Weighted Population

- N/A and/or data not specified

Dilution-Weighted Population Served by Potentially Contaminated Intakes:

Potential Contamination Factor:

0.0

0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

esource Value: 5.00E+00



PRESCORE 4.1 SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS Robert Wooler Company - 10/28/97

Source: 1 Septic Field

Source Hazardous Waste Quantity Value: 0.07

Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Dichloroethylene, 1,1- Tetrachloroethylene Trichloroethane, 1,1,1- "richloroethylene	100 100 1	4.00E-01 4.00E-01 4.00E-01 4.00E-01	5.00E+01 5.00E+01 5.00E+00 5.00E+01	2.00E+03 2.00E+03 2.00E+00 2.00E+02

Hazardous Substances Found in an Observed Release

Samp]	le Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio- accum. Value	Toxicity/ Persistence/ Bioaccum. Value
1	Trichloroethylene	10	4.00E-01	5.00E+01	2 005+02

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	
Toxicity/Persistence/Bioaccumulation Value from Observed Release	2.00E+03
and a substances.	2.00E+02
Toxicity/Persistence/Bioaccumulation Factor:	2.00E+03
Sum of Source Hazardous Waste Quantity Values:	7.40E-02
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	10





PRESCORE 4.1 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PREscore 4.1 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

Fishery

Annual Production (pounds)

Human Food Chain Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

evel II Concentrations

Fishery

Annual Production (pounds)

Human Food Chain Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

evel II Concentrations Factor: 0.00E+00

Potential Contamination

ì	shery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
2 3 4	Rapp Run Sandy Run Wissahickon Creek	1.0	River River River	50 80 103	0.0	1.00E-01 1.00E-01 1.00E-02	3.00E-03

Sum of (Pi*Di): 6.30E-03

Potential Human Food Chain Contamination Factor: 6.30E-04

Food Chain Individual

Location of Nearest Fishery: Rapp Run

Distance from the Probable Point of Entry: 2.00 miles

Type of Surface Water Body: River

Dilution Weight: 0.1000000

Level of Contamination: Potential

ood Chain Individual Factor:

PREscore 4.1

SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS Robert Wooler Company - 10/28/97

Source: 1 Septic Field

Source Hazardous Waste Quantity Value: 0.07

Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value	
Dichloroethylene, 1,1- Tetrachloroethylene richloroethane, 1,1,1- Trichloroethylene	10	4.00E-01	5.00E+01	2.00E+02	
	100	4.00E-01	5.00E+01	2.00E+03	
	10	4.00E-01	5.00E+00	2.00E+01	
	10	4.00E-01	5.00E+01	2.00E+03	

Hazardous Substances Found in an Observed Release

Sampl	e Observed Release Hazardous Substance	Eco- toxicity Value	Persistence Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
1	Trichloroethylene	100	4.00E-01	5.00E+01	2.00E+03

Ecotoxicity/Persistence/Bioaccummulation Value from Source Hazardous Substances:	
Ecotoxicity/Persistence/Bioaccummulation Value from Observation	2.00E+03
neredse nazardous substances:	2.00E+03
Ecotoxicity/Persistence/Bioaccummulation Factor:	2.00E+03
Sum of Source Hazardous Waste Quantity Values:	7.40E-02
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	10





PREscore 4.1 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: RWSW02(200'dwnstrm)

Sample Medium: Aqueous

Location: 0.40 miles

Hazardous Substance	Hazardous Substance Concentration	AWQC Benchmarks Concentrations FRESH SALT	Units
richloroethylene	1.2E+00	0.0E+01 0.0E+01	ppb

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

imple ID: RWSW02(200'dwnstrm) istance from the Probable Point of Entry: 0.40 miles



PRESCORE 4.1
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Robert Wooler Company - 10/28/97

		Distance from Point of Entry	Probable	Sensitive
Sensitive Envi	ronment	Sensitive Env.	(miles)	Environment Value
- N/A and/or	r data not s	specified		
Sum of Sensitiv	ve Environme	ents Values:		0
Wetlands				
	Dista	nce from Probable		
etland	Point Wetla	of Entry to nd (miles)		lands ntage (miles)
- N/A and/or	data not s	pecified		
Total Wetlands		0.00 Miles	Total Wetlar	[[[[[[[[[[[[[[[[[[[
um of Sensitiv	e Environme	======== nts Value + Wetlar	nds Value: 0	-=====================================
				COETOO
		Level I Cond	centrations F	actor: 0.00E+0
evel II Concen	trations	Level I Cond	centrations F	Cactor: 0.00E+0
evel II Concen	trations	Level I Cond	centrations F Probable	actor: 0.00E+(
evel II Concen	trations Onment	Level I Cond Distance from P Point of Entry Sensitive Env.	centrations F Probable	Sensitive Environment
evel II Concent	trations onment data not sp	Level I Cond Distance from P Point of Entry Sensitive Env.	centrations F Probable	Sensitive Environment
evel II Concent ensitive Enviro - N/A and/or um of Sensitive	trations onment data not sp	Level I Cond Distance from P Point of Entry Sensitive Env.	centrations F Probable	Sensitive Environment Value
evel II Concent ensitive Enviro - N/A and/or um of Sensitive	onment data not specific Environmen	Level I Cond Distance from P Point of Entry Sensitive Env. Decified	centrations F Probable	Sensitive Environment Value
evel II Concent	onment data not specific Environment Distan	Level I Cond Distance from P Point of Entry Sensitive Env. Decified ts Values:	Probable to (miles)	Sensitive Environment Value
evel II Concent ensitive Enviro - N/A and/or um of Sensitive	trations onment data not sp Environmen Distan Point	Distance from P Point of Entry Sensitive Env. Decified Outs Values:	Probable to (miles)	Sensitive Environment Value
evel II Concent ensitive Environ - N/A and/or um of Sensitive	trations onment data not sp Environmen Distan Point Wetlan	Distance from P Point of Entry Sensitive Env. Decified ts Values: ce from Probable of Entry to d (miles)	Probable to (miles)	Sensitive Environment Value
evel II Concent ensitive Environment - N/A and/or um of Sensitive etlands	trations onment data not sp Environmen Distan Point Wetlan data not sp	Distance from P Point of Entry Sensitive Env. Decified ts Values: ce from Probable of Entry to d (miles) ecified	Probable to (miles)	Sensitive Environment Value 0

Level II Concentrations Factor: 0.00E+00



PRESCORE 4.1 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS Robert Wooler Company - 10/28/97

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value	
River	5 Wissa Crk-St Protec	E	
River	6 Wissa-St Scenic Riv	5	
River		25	
KIVEL	7 Ft Wash St Park	25	

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value
River	1 Trib Wetlands	0.12	25
.iver	2 Rapp Run Wetlands	0.41	25
River	3 Sandy Run Wetlands 4 Wissa Wetlands	0.32	25
	4 Wissa Wetlands	2.77	75

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj	Dilution Weight) (Dj)	Dj(Wj+Sj)
Small to Moderate Stream Moderate to Large Stream	25 30	25 75	1.00E-01 1.00E-02	5.00E+00 1.05E+00
	Sun	Sum of Dj n of Dj(Wj+	(Wj+sj): +sj)/10:	6.05E+00 6.05E-01

Potential Contamination Sensitive Environment Factor: 6.05E-01



PRESCORE 4.1 SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE Robert Wooler Company - 10/28/97

Containment

No.	Source ID	HWQ Value	Containment	Value
1	Septic Field	7.40E-02	10	
===	Cont	======== ainment Factor	10	=====
Net	Precipitation			

Net Precipitation

Net Precipitation (inches)

6.50

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PRESCORE 4.1 SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE Robert Wooler Company - 10/28/97

Aquifer: Ledger/Stockton Formation

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

No.	Well ID	Well Type	I		tance iles)	Level of (Contaminat	ion
1 42	Wooler Well 1997 Wooler Well 1989	Monitoring Monitoring	Well (0.00	00	Level I Level I		<u></u>
Wel	- Annual Control of the Control of t							
No.	Hazardous Substar	ice	Concer	nt.	MCL	Cancer	RFD	Units
42	Dichloroethylene, 1, Tetrachloroethylene Trichloroethane, 1,1 Trichloroethylene Dichloroethylene, 1, Tetrachloroethylene Trichloroethane, 1,1 Trichloroethylene	,1- 1- ,1-	1.1E+0 6.0E+0 7.4E+0 3.7E+0 5.2E+0 2.2E+0 5.2E+0 2.7E+0	00	7.0E+00 5.0E+00 2.0E+02 5.0E+00 7.0E+00 5.0E+00 2.0E+02 5.0E+00	1.6E+00 0.0E+00 7.7E+00 1.4E-01 1.6E+00 0.0E+00	3.3E+02 3.7E+02 0.0E+00 0.0E+00 3.3E+02 3.7E+02 0.0E+00	ppb ppb ppb ppb ppb ppb ppb

Observed Release Factor 550

PREscore 4.1 SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE Robert Wooler Company - 10/28/97

POTENTIAL TO RELEASE

Potential to Release Factor 430
e Factor 35
Conductivity (cm/sec) 1.0E-04
of Layer(s) with Lowest Conductivity 5.00 feet
ayers Karst? NO
Aquifer Factor 5
to Aquifer (B - A) 15.00 feet
to Aquifer from Surface 23.00 feet
of Hazardous Substances 8.00 feet
uifer
pitation Factor 3
tation
ent Factor 10
5 -
180
Point of Entry 0.15 miles
er to Surface Water Angle

Potential to Release Factor 430





PRESCORE 4.1 SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS Robert Wooler Company - 10/28/97

Source: 1 Septic Field

Source Hazardous Waste Quantity Value: 0.07

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobililty/ Persistence
Dichloroethylene, 1,1- Tetrachloroethylene Trichloroethane, 1,1,1- Trichloroethylene	100 1	4.00E-01 4.00E-01 4.00E-01 4.00E-01	1.00E+00 1.00E+00 1.00E+00 1.00E+00	4.00E+01 4.00E+01 4.00E-01 4.00E+00

Hazardous Substances Found in an Observed Release

Observed Release Hazardous 1bstance	Toxicity Factor Value	Persist. Value	Toxicity/ Persistence
Dichloroethylene, 1,1- Tetrachloroethylene Trichloroethane, 1,1,1- Trichloroethylene	100 100 1	4.00E-01 4.00E-01 4.00E-01 4.00E-01	4.00E+01 4.00E+01 4.00E-01 4.00E+00

Toxicity/Mobility/Persistence Value from Source Hazardous Substances:	4.00E+01
Toxicity/Mobility/Persistence Value from Observed Release Hazardous Substances:	
Toxicity/Mobility/Persistence Factor:	4.00E+01
Sum of Source Hazardous Waste Quantity Values:	4.00E+01
Hazardous Waste Quantity Factor:	7.40E-02
	10
Waste Characteristics Factor Category:	3



PRESCORE 4.1 SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: RWSW02(200'dwnstrm)

Sample Medium: Aqueous

Location:

0.40 miles

Hazardous Substance	Hazardous Substance Concentration	DW MCL Benchmark Concentration	Units	Observed in Upper Aquifer ?	
richloroethylene	1.2E+00	5.0E+00	ppb	YES	

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

imple ID: RWSW02(200'dwnstrm)
Jistance from the Probable Point of Entry: 0.40 miles

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PREscore 4.1 SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

Distance Along the

In-water Segment from the

Intake

Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

Level II Concentrations

Distance Along the

In-water Segment from the

Intake Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level II Intakes:

Level II Population Factor: 0.00E+00

Potential Contamination

Intake ID

Average Annual Flow (cfs)

Population Served

- N/A and/or data not specified

Type of Surface

Water Body

Total Population

Dilution-Weighted Population

- N/A and/or data not specified

Dilution-Weighted Population Served

by Potentially Contaminated Intakes:

Potential Contamination Factor:

0.0

0.0

0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor:

Resources

Resource Use: YES

esource Value: 5.00E+00



PRESCORE 4.1 SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS Robert Wooler Company - 10/28/97

Source: 1 Septic Field

Source Hazardous Waste Quantity Value: 0.07

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio- accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Dichloroethylene, 1,1- Tetrachloroethylene Trichloroethane, 1,1,1- Trichloroethylene	100	4.00E-01 4.00E-01	1.00E+00 1.00E+00	5.00E+01 5.00E+00	2.00E+03 2.00E+03 2.00E+00 2.00E+02

Hazardous Substances Found in an Observed Release

Observed Release izardous substance	Toxicity Value	Persist. Value	Bio- accum. Value	Toxicity/ Persistence Bioaccum. Value
Dichloroethylene, 1,1- Tetrachloroethylene Trichloroethane, 1,1,1- Trichloroethylene	100	4.00E-01 4.00E-01	5.00E+01 5.00E+00	2.00E+03 2.00E+03 2.00E+00 2.00E+02

Toxicity/Mobility/Persistence/Bioaccumulation Value from Source Hazardous Substances:	2.00E+03
Toxicity/Mobility/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	2.00E+03
Toxicity/Mobility/Persistence/Bioaccumulation Factor:	2.00E+03
Sum of Source Hazardous Waste Quantity Values:	7.40E-02
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	10



PRESCORE 4.1 SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified



PREscore 4.1 SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

Annual Production Fishery (pounds)

Human Food Chain Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

evel II Concentrations

Annual Production Fishery (pounds)

Human Food Chain Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

evel II Concentrations Factor: 0.00E+00

Potential Contamination

i	shery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)		Dilution Weight (Di)	Pi*Di
2 3 4	Rapp Run Sandy Run Wissahickon Cr	1.0	River River River	50 80 103	0.0	5.00E-02	1.50E-03 1.50E-03 1.50E-04

Sum of (Pi*Di): 3.15E-03

Potential Human Food Chain Contamination Factor: 3.15E-04

Food Chain Individual

Location of Nearest Fishery: Rapp Run

Distance from the Probable Point of Entry: 2.00 miles

Type of Surface Water Body: River

Dilution Weight: 0.0500000

Level of Contamination: Potential

ood Chain Individual Factor: 2.00



PRESCORE 4.1 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS Robert Wooler Company - 10/28/97

Source: 1 Septic Field

Source Hazardous Waste Quantity Value: 0.07

Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Dichloroethylene, 1,1- Tetrachloroethylene "richloroethane, 1,1,1- cichloroethylene	100 10	4.00E-01 4.00E-01	1.00E+00 1.00E+00	5.00E+01 5.00E+00	2.00E+02 2.00E+03 2.00E+01 2.00E+03

Hazardous Substances Found in an Observed Release

Jbserved Release Hazardous Substance	Eco- toxicity Value	Persist. Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Dichloroethylene, 1,1- Tetrachloroethylene Trichloroethane, 1,1,1- Trichloroethylene	10 100 10 10	4.00E-01 4.00E-01	5.00E+01 5.00E+00	2.00E+02 2.00E+03 2.00E+01 2.00E+03

Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Source Substances:	2.00E+03
Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Observed Hazardous Substances:	2.00E+03
Ecotoxicity/Mobility/Persistence/Bioaccummulation Factor:	2.00E+03
Sum of Source Hazardous Waste Quantity Values:	7.40E-02
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	10

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PRESCORE 4.1 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS Robert Wooler Company - 10/28/97

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

Sample ID: RWSW02(200'dwnstrm)

Sample Medium: Aqueous

Location:

0.40 miles

Hazardous Substance	Hazardous Substance Concentration	AWQC Benchmark Concentrations FRESH SALT		Observed in Upper Aquifer ?
richloroethylene	1.2E+00 0	.OE+01 0.OE+01	ppb	YES

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

Sample ID: RWSW02(200'dwnstrm)

istance from the Probable Point of Entry: 0.40 miles



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PRESCORE 4.1 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS Robert Wooler Company - 10/28/97

Sensitive Environme	n+	Distance from Point of Entry	to	Sensitive Environment
- N/A and/or data		Sensitive Env.	(miles)	Value
Sum of Sensitive En	vironment	s Values:		0
Wetlands				
etland	Point of	e from Probable f Entry to (miles)	Wet	lands ntage (miles)
- N/A and/or data	a not spec	cified		
Total Wetlands Front	tage:	0.00 Miles	Total Wetla	nds Value: 0
		Level I Cond	centrations 1	Factor: 0 00E
evel II Concentrati	ons	Level I Cond	centrations	Factor: 0.00E+0
evel II Concentrati ensitive Environmen		Level I Cond Distance from P Point of Entry Sensitive Env.	Probable to	Sensitive Environment Value
	it	Distance from F Point of Entry Sensitive Env.	Probable to	Sensitive Environment
ensitive Environmen	not spec	Distance from F Point of Entry Sensitive Env. ified	Probable to	Sensitive Environment
ensitive Environmen - N/A and/or data	not spec	Distance from F Point of Entry Sensitive Env. ified	Probable to	Sensitive Environment Value
ensitive Environmen - N/A and/or data um of Sensitive Env	not spec	Distance from Point of Entry Sensitive Env. ified Values: from Probable Entry to	Probable to (miles) Wetl	Sensitive Environment Value
ensitive Environmen - N/A and/or data um of Sensitive Env	not specironments Distance Point of Wetland	Distance from Point of Entry Sensitive Env. ified Values: from Probable Entry to (miles)	Probable to (miles) Wetl	Sensitive Environment Value 0

Level II Concentrations Factor: 0.00E+00





PRESCORE 4.1 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS Robert Wooler Company - 10/28/97

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value	
River	5 Wissa Crk-St Protec	5	
River	6 Wissa-St Scenic Riv		
River	7 Ft Wash St Park	25	

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value	
lver	1 Trib Wetlands	0.12	25	
iver	2 Rapp Run Wetlands	0.41	25	
River	3 Sandy Run Wetlands	0.32	25	
River	4 Wissa Wetlands	2.77	75	

Type of Surface Water Body	38	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj	Dilution Weight) (Dj)	Dj(Wj+Sj)
Small to Moderate Moderate to Large		25 30	25 75	5.00E-02 5.00E-03	2.50E+00 5.25E-01
		Sur	Sum of Dj m of Dj(Wj	(Wj+Sj): +Sj)/10:	3.02E+00 3.02E-01

Potential Contamination Sensitive Environment Factor: 3.02E-01





PRESCORE 4.1 SOIL EXPOSURE PATHWAY-RESIDENT POPULATION THREAT Robert Wooler Company - 10/28/97

Likelihood of Exposure

No. Source ID Level of Contamination

- N/A and/or data not specified

Likelihood of Exposure Factor: 0

azardous Substance Toxicity Value

Toxicity Factor:	0.00E+00
Sum of Source Hazardous Waste Quantity Values:	0.00E+00
Hazardous Waste Quantity Factor:	0
Waste Characteristics Factor Category:	0

argets

Level I Population:	0.0	Value:	0.00
Level II Population:	0.0	Value:	0.00
Workers:	40.0	Value:	0.00
Resident Individual:	Potentia	Value:	0.00
Resources:	NO .	Value:	0.00

Terrestial	Sensitive	Environment	Value

- N/A and/or data not specified

Terrestrial Sensitive Environments Factor: 0.00



PREscore 4.1 SOIL EXPOSURE PATHWAY-NEARBY POPULATION THREAT Robert Wooler Company - 10/28/97

Likelihood of Exposure

No. Source ID	Level of Contamination	Attractiveness/ Accessibility	Area of Contam. (sq. feet)
- N/A and/or d	ata not specified		
	eness/Accessibility		
Sum of Eligible A Area of Contamina	reas Of Contamination tion Value: 0	on (sq. feet):	0
Likelihood of Exr	osure Factor Categor	cv: 0	

Hazardous Substance

Toxicity Value

Toxicity Factor:	0.00E+00
Sum of Source Hazardous Waste Quantity Values:	0.00E+00
Hazardous Waste Quantity Factor:	0
Waste Characteristics Factor Category:	0

Nearby Individual

Population within 1/4 mile: 40.0

Nearby Individual Value:

1.0

Population Within 1 Mile

Travel Distance Category	Number of People	Value
> 0 to 1/4 mile > 1/4 to 1/2 mile	40.0 791.0	0.1 0.7
> 1/2 to 1 mile	1585.0	1.0

2.0

Population Within 1 Mile Factor:





PRESCORE 4.1 AIR PATHWAY LIKELIHOOD OF RELEASE Robert Wooler Company - 10/28/97

OBSERVED RELEASE

No.	Sample ID	Distance (miles)	Level o	f Contam:	ination	
2	- N/A and/or data not s	pecified				
			Observed	=======		========



PREscore 4.1 AIR PATHWAY LIKELIHOOD OF RELEASE Robert Wooler Company - 10/28/97

Gas Migration Potential

GAS POTENTIAL TO RELEASE

			Gas Gas Gas Source Migrtn. Contain.Type Potent.		Gas Potential to Rel.		
Source ID	Source Type		Value (A)	Value (B)	Value (C)	Sum (B+C)	Value A(B+C)
Septic Field	Contaminated Sc	oil	7	19	17	36	252

Gas Potential to Release Factor: 252

Source: Septic Field

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Dichloroethylene, 1,1-	17
etrachloroethylene	17
richloroethane, 1,1,1-	17
Trichloroethylene	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 17.000

Gas Migration Potential Value From Table 6-7: 17





PREscore 4.1 AIR PATHWAY LIKELIHOOD OF RELEASE Robert Wooler Company - 10/28/97

Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Partic.Partic.

Partic.

Partic. Source Migrtn.

Potential

Contain.Type

Potent.

to Rel.

Source ID

Source Type

Value (A) (B)

(C)

Value Value Sum Value (B+C) A(B+C)

- N/A and/or data not specified

Particulate Potential to Release Factor:

0

Source: Septic Field

Particulate Hazardous Substance



PRESCORE 4.1 AIR PATHWAY WASTE CHARACTERISTICS Robert Wooler Company - 10/28/97

Source: 1 Septic Field

Source Hazardous Waste Quantity Value: 0.07

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Dichloroethylene, 1,1-	100	1.00E+00	NA	1.00E+02
Tetrachloroethylene	100	1.00E+00	NA	1.00E+02
Trichloroethane, 1,1,1-	1	1.00E+00	NA	1.00E+00
"richloroethylene	10	1.00E+00	NA	1.00E+01

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Particulate Toxicity/ Mobility Value	Gas Toxicity/ Mobility Value	
	1	TIODITITE V VALUE	

⁻ N/A and/or data not specified

Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	
	0.00E+00
Toxicity/Mobility Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	
	7.40E-02
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	
characteristics ractor category:	6

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PRESCORE 4.1 AIR PATHWAY TARGETS Robert Wooler Company - 10/28/97

Actual Contamination

Distance

No. Sample ID

(miles)

Level of Contamination

- N/A and/or data not specified

Potential Contamination

to Potential Contamination	Population	Value	
Onsite	40.0	5.3000	
> 0 to 1/4 mile	40.0	1.3000	
> 1/4 to 1/2 mile	791.0	2.8000	
> 1/2 to 1 mile	1585.0	2.6000	
> 1 to 2 miles	19645.0	8.3000	
> 2 to 3 miles	26845.0	3.8000	
> 3 to 4 miles	55165.0	7.3000	

Potential Contaminantion Factor: 31.0000

Nearest Individual Factor

Level of Contamination: Potential

Distance in miles: 0 to 1/8

Nearest Individual Value: 20

Resources

Resource Use: YES

Resource Value: 5





PRESCORE 4.1 AIR PATHWAY TARGETS Robert Wooler Company - 10/28/97

Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)		
- N/A and/or data not	specified		
Actual Contamination, W	etlands		
Distance Category	Wetland Acreage	Wetland Acreage Value	

Sensitive Environments Actual Contamination Factor: 0.000 (Sum of Sensitive Environments + Wetlands Values)



PRESCORE 4.1 AIR PATHWAY TARGETS Robert Wooler Company - 10/28/97

Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
Ft Wash St Park	2.000	25	0.0051	0.013
Wissa St Scenic Riv	2.800	25	0.0031	0.013 0.006
Wissa Crk-St Protec	2.800	5	0.0023	0.001
Sum of Sensitive Environm	ments Weighted	Values/10:		0.020

Potential Contamination, Wetlands

Wetland	Wetland	Distance	Weighted
Acreage	Acreage Value	Weight	Value/10
10.0	25.0	0.0014	0.004
22.0	25.0	0.0023	0.006
35.0	25.0	0.0160	0.040
	10.0 22.0	Acreage Acreage Value 10.0 25.0 22.0 25.0	Acreage Acreage Value Weight 10.0 25.0 0.0014 22.0 25.0 0.0023

Total Wetland Acreage: 67.0

Sum of Wetland Weighted Acreage Values/10: 0.049

Sensitive Environment Potential Contamination Factor: 0.069